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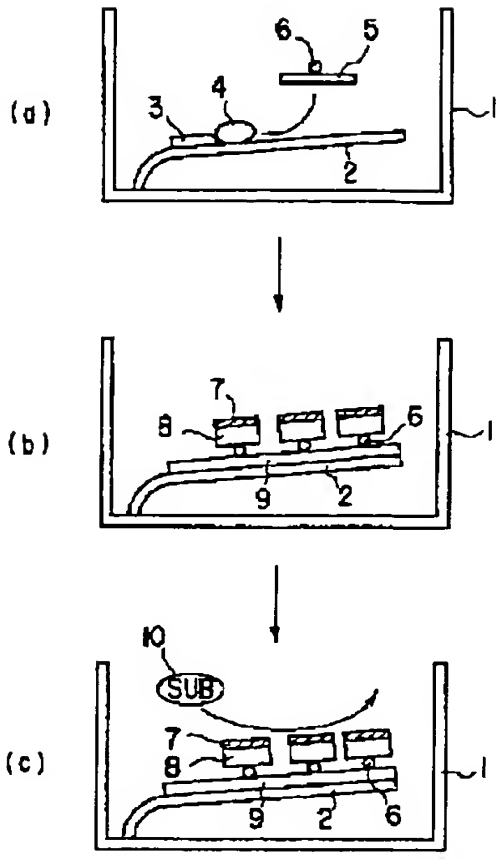
TITLE : DNA SYNTHETIC ENZYME USED NON-RADIOACTIVE LABEL AND MEASURING METHOD OF ACTIVITY TO ANTIBODY OF THE ENZYME



ABSTRACT : PURPOSE: To readily measure the enzyme by bringing a solution containing a solidified nucleic acid as a mold of a DNA synthetic enzyme, a DNA non- radioactively labeled in complement with the nucleic acid, a primer and a surfactant into contact with a specimen and measuring the label after the reaction.

CONSTITUTION: A reacting solution containing a nucleotide (e.g.; poly-dA) as a mold of a DNA synthetic enzyme and in a solidified state fixed in a vessel 1, a deoxyribonucleotide 5 (e.g.; dVTP) complementary to the nucleotide chain and non-radioactively labeled with biotin 6, etc., a primer 3 (e.g.; oligo-dT) and a surfactant is brought into contact with a specimen containing a DNA synthetic enzyme (e.g.; DNA polymerase) in a prescribed vessel 1 to synthesize a DNA 9. Next, biotin 6 as a solidified non-radioactive label is reacted with streptavidin 8 labeled with an enzyme 7 and the non-radioactive label is selectively measured by a reaction with a substrate 10, etc.,to measure activity of the DNA synthetic enzyme.